

TECHNICAL DATA SHEET

TECHNYL C 218 V30 BK 9262 D

DOMAMID 6G30H2 BK99262

Polyamide 6, 30% glass fiber reinforced, heat-aging stabilized, for injection molding

General

Certifications	RoHS
Polymer type	PA6
Feature	heat-aging stabilized
Processing technology	injection moulding

Product identification

ISO 1043 abbreviation	PA6-GF30
ISO 16396 designation	PA6,GF30,MH,S14-100

Condition	Standard	Unit	Value
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Physical properties

	Condition	Standard	Unit	Value
Density		ISO 1183	g/cm ³	1.38
Humidity absorption	T=23°C, 50% RH	ISO 62	%	2.2 - 2.4
Water absorption	24 hr, 23°C	ISO 62	%	1.4 - 1.5
Water absorption, saturation			%	6.1

	Condition	Standard	Unit	Value
Mechanical properties				dam / cond.*
Tensile modulus	1 mm/min	ISO 527-1/-2	MPa	9800 / 5000
Stress at break	5mm/min	ISO 527-1/-2	MPa	160 / 90
Strain at break	5mm/min	ISO 527-1/-2	%	3 / 7
Flexural modulus, ISO 178	2 mm/min	ISO 178	MPa	8200 / 4500
Flexural strength, ISO 178	2 mm/min	ISO 178	MPa	245 / 140
Charpy impact strength, +23°C	+23°C	ISO 179/1eU	kJ/m ²	65 / 75
Charpy notched impact strength, +23°C	+23°C	ISO 179/1eA	kJ/m ²	9 / 19
Izod impact strength, +23°C	+23°C	ISO 180/1U	kJ/m ²	55 / -
Izod notched impact strength, +23°C	+23°C	ISO 180/1A	kJ/m ²	8.5 / -

*: **conditioned according to ISO 1110**

	Condition	Standard	Unit	Value
Thermal properties				
Melting temperature, 10°C/min		ISO 11357-1	°C	221
Temp. of deflection under load, 1.80 MPa	1.80 MPa	ISO 75	°C	200

	Condition	Standard	Unit	Value
Burning behaviour				
Flammability, 0.75 mm	0.75 mm	UL 94		HB
Burning rate, FMVSS, Thickness 1 mm		FMVSS 302		<100

	Condition	Standard	Unit	Value
Electrical properties				
Volume resistivity		IEC 62631-3-1	ohm.m	1.0E16
Surface resistivity		IEC 62631-3-1	ohm	1.0E14

Processing conditions

Processing conditions

Drying temperature/time	75-85°C / 2-4h (with dew point of dried air < -30°C)
Recommended melt temperature	235 - 275 °C
Recommended mould temperature	80 - 120 °C

Injection notes

The material is supplied in airtight bags, ready for use.,In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment, dew point minimum -20°C.,Recommended time 2-4h.

Injection advice

For reinforced polyamides, Domo recommends the use of steel with a high content of carbon, and purified for polishing, to avoid or limit the abrasion. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (DIN Norm) or X160CrMoV12 (EN Norm) - 1.2601 /1.2379 (DIN Norm). In the case of high requirements on surface quality a mould temperature of up to 120°C can be considered.,The processing parameters like processing temperatures are a recommendation and can be adjusted in function of injection machine size, part geometry / design.